

Abstract

A device making use of heated fluid to reduce dust products in a waste gas pipeline comprises a chamber, a heating pipe placed in the chamber, a gas injection pipe for injecting gas into the chamber, an exhaust pipe for exhausting
5 gas carrying away heat of the heating pipe, a connection pipe connected to the pipeline and having an open groove annularly disposed thereon, a U-shaped gas guide ring having an insertion hole for connecting the exhaust pipe, and a top lid for sealing the U-shaped gas guide ring. A wedged guide wall is disposed on the inner sidewall of the U-shaped gas guide ring. When the device is in use,
10 gas injected into the chamber will take heat on the heating pipe away. The gas of higher thermal energy then flows from the chamber into the connection pipe and then the exhaust pipeline, hence reducing accumulation of products in the exhaust pipeline.